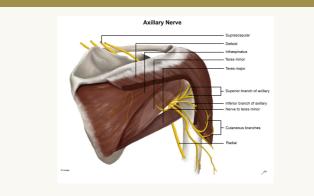
Cheatography

Axillary Neuropathy Cheat Sheet by Siffi (Siffi) via cheatography.com/122609/cs/25888/

Axillary Nerve



- Posterior cord of the brachial plexus, anterior to the subscapularis muscle
- Travels inferior to the glenohumeral joint capsule
- Passes through quadrangular space
- Axillary nerve splits into anterior and posterior division
- Anterior division = motor innervation to anterior and middle heads of deltoid
- Posterior division = motor innervation to posterior deltoid and teres minor
- Terminates as the superior lateral cutaneous nerve (innervates lateral shoulder)
- C5-C6

Causes

- Skiiers, footballers, rugby, baseball, hockey, soccer, weight lifting, wrestling
- Chronic compression occurs in young adults who are overhead throwers
- Carrying a heavy backpack/ misuse of crutches
- Overdeveloped or hypertrophic muscles forming quadrangular space
- Ganglion/paralabral cyst
- More common in the dominant shoulder
- Brachial Neuritis (Parsonage-Turner Syndrome)
- Rare in isolation
- Older people with GH dislocation more predisposed

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Presentation

- Dull, poorly localises shoulder ache

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- Can be after sporting event or blunt force to the shoulder (shoulder dislocation can be related to AN)
- Vague deltoid numbness or parasthesia
- Sensory symptoms often worse at night
- Deltoid weakness may be present (rapid fatigue with overhead throwing)
- Excaerbated by arm abduction and external rotation
- Point tenderness of quadrangular space
- Weakness in abduction, external rotation
- Deltoid atrophy if chronic

- Assess for changes in limb (cyanosis, pallor, splinter haemorrhages) for lesions pressing on posterior circumflex artery as it exits the quadrangular space (Quadrangular space syndrome (QSS)

- Assess ipsilateral neck and upper extremity
- Assess other nerves (Spinal accessory, suprascapular, long thoracic, musculocutaneous, radial)

DDx

- Cx radiculopathy
- TOS
- Rotator cuff tear
- Brachial plexopathy
- QSS
- Brachial neuritis
- GH f#/dislocation
- Subacromial impingement syndrome
- Herpes Zoster



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Imaging



- X-ray rule out bony pathology/ if trauma

- MRI to rule out lesions and look for atrophy of teres minor/deltoid
- EMG gold standard
- MRI if compressive/inflammatory causes

Management

Selective rest and modifications

ROM exercises

Cross friction massage / myofascial release to muscles of quadrangular space

- GH mobilisation
- Cross body and posterior capsule stretching
- Rotator cuff strengthening
- Avoidance of positions that place axillary nerve in traction
- NSAIDs
- If failure to restore function in 3-6 months , consider surgical referral

- Traumatic cases can be managed non-surgically (reduction, immobilised for 4-6 weeks in the young and 7-10 days in the elderly then a rehab program - muscle strength and shoulder mobility) but there is a risk of permanent paralysis

-Neuropraxic patients expect recovery within 6-12 months

- Axonotmesis recovery is high, but can take many months, if no signs of recovery within 6-9 months, consider surgery
- Neurotmesis patients should have surgery

Prognosis

- Low grade + GH dislocation recovery within 7 months

Complications: Permanent numbness to the lateral shoulder region, atrophy of the deltoid and teres minor muscles and chronic neuropathic pain

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